

Utah Weekly Pertussis Update

2014 data, through MMWR week ending April 18, 2015 (MMWR week 15)

Data presented in this report are based on current data available and will be subject to change weekly.

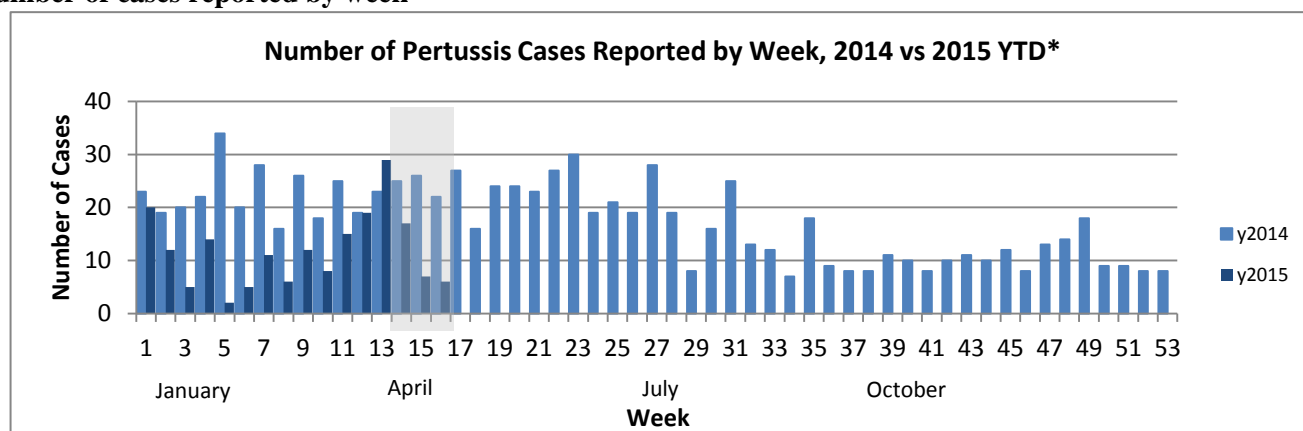
Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	188	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	21.9
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	**	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	344	2015 Hospitalizations	5
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	20
	1-4 year		

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

** Cases counts have decreased from last week due to pertussis reports being ruled out as pertussis cases.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	20	50,052	135.0
1-4	40	203,815	66.3
5-14	49	505,598	32.8
15-24	28	469,436	20.2
25-34	14	440,736	10.7
35-44	18	372,699	16.3
45-54	3	305,312	3.3
55-64	13	269,589	16.3
65+	3	283,635	3.6
Total	188	2,900,872	21.9

* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

**2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

School Age Incidence Rates, 2015 Year-to-Date

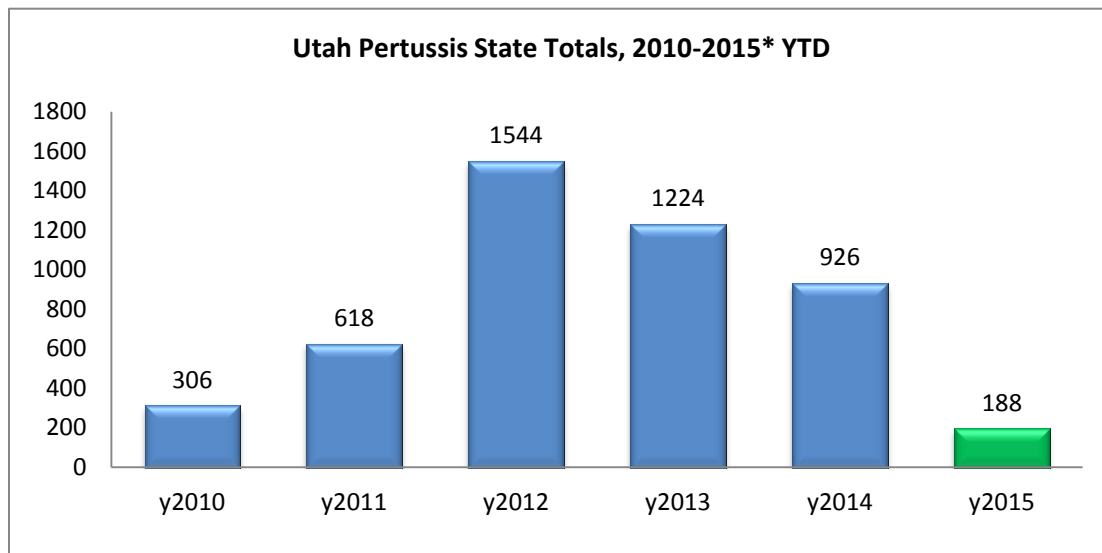
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	78	103,602	254.4
Kindergarten	5	5	53,177	31.8
1	6	6	52,869	38.4
2	7	5	52,063	32.5
3	8	10	51,809	65.2
4	9	5	51,080	33.1
5	10	2	50,567	13.4
6	11	6	48,961	41.4
7	12	3	49,008	20.7
8	13	4	48,884	27.7
9	14	3	47,180	21.5
10	15	7	46,321	51.1
11	16	7	45,914	51.5
12	17	6	44,889	45.2

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	8	35.4
Davis County	8	8.4
Salt Lake Valley	44	13.8
Southeastern Utah	11	66.3
Southwest Utah	2	3.2
Summit County	40	351.3
Tooele County	1	5.6
TriCounty	0	0.0
Utah County	10	6.1
Wasatch County	4	51.1
Weber-Morgan	21	28.5

* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

